



Faculty of Computers and Artificial Intelligence Data Warehousing – May 2025

Hospital Data Warehouse Project

1. Team Members

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2. Physical model of the source system: Patients patient_id last_name date_of_birth **Hospital Management System** gender contact_numbe medical_history created_at Prescription g prescription_id patient_id doctor_id Billing Ambulance_Log Ambulance medication_name bill_id log_id Appointments Room_Assignments ambulance_id dosage patient_id 8 assignment_id ambulance_id Pharmacy frequency room_id duration staff_id doctor_id driver_id medicine_id dropoff_location payment_status patient_id last service date patient_id payment_date pickup time assignment_date quantity insurance_provider dropoff_time prescription_date created_at status Staff Doctors created_at doctor_id Rooms g staff_id first_name g room_id Room_Types last_name last_name Medical_Records room_number Workers specialty record_id room_type_id contact_number department_id staff_id contact number job_title last_serviced created_at work_schedule diagnosis Blood_Bank hire_date treatment Medicine blood_type Doctor_Department Cleaning_Service stock_quantity doctor_id brand last updated department_id type Nurses nurse_id service_time Medical_Records_Medicine staff_id staff_id Departments expiry_date record_id department_id medicine_id created_at shift_hours department_name dosage

3a. Define the business processes that you will model:

1. Fact_Pharmacy - Medication Dispensing Process:

- Tracks the distribution and usage of prescribed medicine.
- KPIs:
 - > Total quantity dispensed by medicine type and year
 - Most prescribed medicines per year
 - Unique patient count per medicine

2. Fact_Appointments – Patient Visit Process

- Tracks patient visits and interactions with doctors.
- KPIs:
 - > Top No of Appointments count per patient per year
 - Average appointments per doctor per year
 - Top Doctors by Appointment Volume

3. Fact_Billing - Revenue Collection Process

- Captures all billing transactions and financial flow.
- KPIs:
 - > Average billing per patient per year
 - > Total revenue by year
 - > Monthly revenue trends
 - > Top Patients by Total Billing

4. Fact_Cleaning_Service - Facility Hygiene Management Process

- Tracks room cleaning activities and workload per staff.
- KPIs:
 - > Total No. of cleaning services done by each staff member in each year
 - Yearly Cleaning Services per Room
 - > Total services by room type

3b. Declare the grain of each fact table:

The grain of each fact table is defined at the most detailed (minimum) level of the respective business process. This minimum grain allows flexible aggregation and supports detailed analysis across multiple dimensions.

Fact Table	Grain (One row represents)
Fact_Pharmacy	One medication dispensed to a patient on a specific date.
Fact_Appointments	One appointment made by one patient with one doctor on a specific date .
Fact_Billing	One bill issued to one patient on a specific date
Fact_Cleaning_Service	Number of cleaning services performed by one staff member in one room on a specific date

3c. Define the type of each fact table:

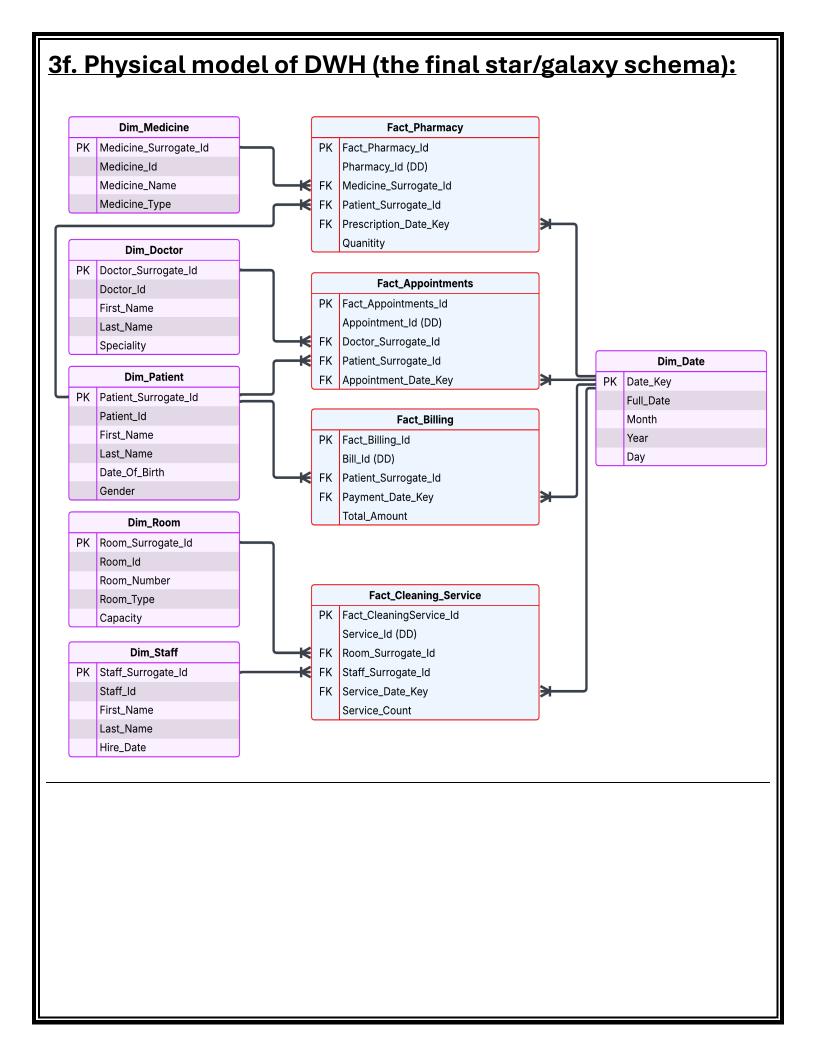
Fact Table	Fact Table Type	Reasoning
Fact_Pharmacy	Transaction Fact Table	Each row represents a medication dispense event.
Fact_Appointments	Factless Fact Table	Represents appointment events with no measures. Counting only.(Each row = a distinct doctorpatient appointment)
Fact_Billing	Transaction Fact Table	Each record is a single billing transaction for a specific patient.
Fact_Cleaning_Service	Periodic Snapshot	Each row = a summary of cleanings, not individual cleanings (count of cleaning)

Dimension Table	Type	
		Reasoning
Dim_Patient	Conformed	Used across multiple fact tables like Fact_Appointments, Fact_Billing, Fact_Pharmacy.
Dim_Date	Conformed, Role-Playing .	Used across all facts for date-related analysis, and reused with different date roles (appointment date, billing date, cleaning service date)
Dim_Room	Static Dimension	Room number, type, and capacity don't typically change often
Dim_Staff	Slowly Changing Dimension (SCD)	staff attributes like First_Name, Last_Name may change over time
Dim_Medicine	Static Dimension	Medicine name and type are usually fixed; changes are rare and often treated by introducing a new medicineID.
Dim_Doctor	Slowly Changing Dimension (SCD)	'Speciality', 'First_Name', 'Last_Name ' attribute may be change over time
Dim_Pharmacy	Degenerate Dimension	It has ONLY primary key attribute "Pharmacy_Id" and this attribute is stored in the fact table "Fact_Pharmacy" and has no associated dimension table

Dim_Appointment	Degenerate Dimension	It has ONLY primary key attribute "Appointment_Id" and this attribute is stored in the fact table "Fact_Appointments" and has no associated dimension table
Dim_Bill	Degenerate Dimension	It has ONLY primary key attribute "Bill_Id" and this attribute is stored in the fact table "Fact_Billing" and has no associated dimension table
Dim_Service	Degenerate Dimension	It has ONLY primary key attribute "Service_Id" and this attribute is stored in the fact table "Fact_Cleaning_Service" and has no associated dimension table

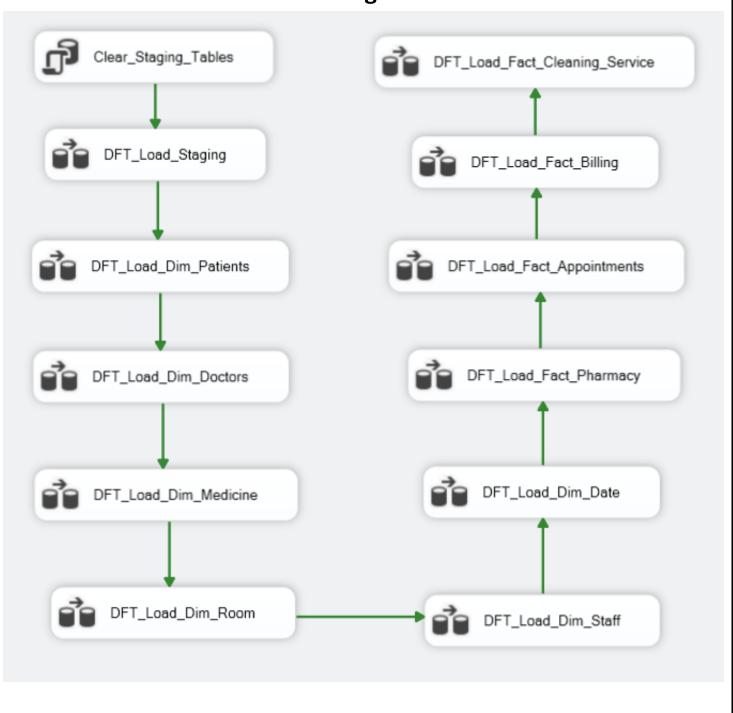
3e. Define the measures that will appear in the fact tables and the type of each one:

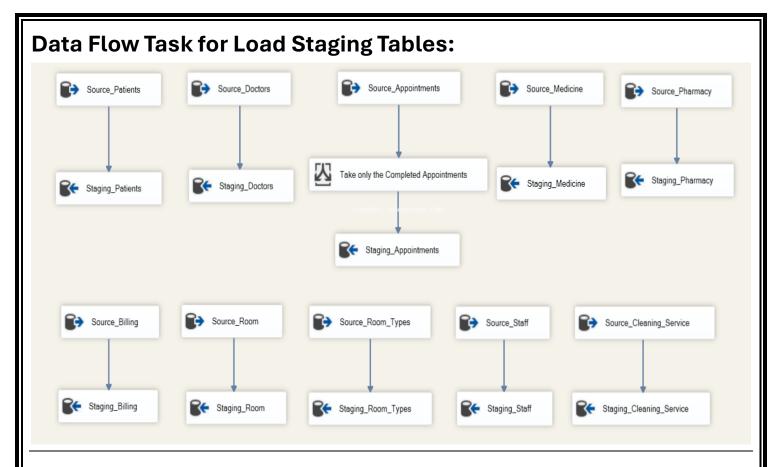
Fact Table	Measure	Measure Type
Fact_Pharmacy	Quantity	Fully Additive - Can be summed across all dimensions including time.
Fact_Billing	Total_Amount	Fully Additive - Can be summed over time, patients.
Fact_Cleaning_Service	Service_Count	Fully Additive - Number of cleanings can be summed across all dimensions.



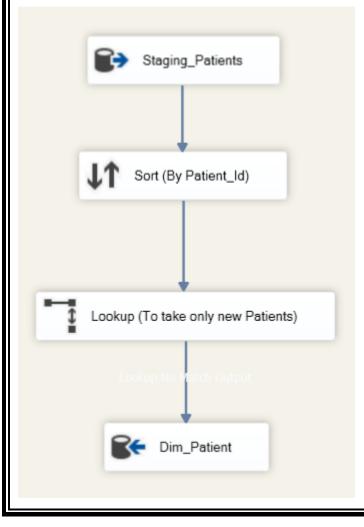
4. Screenshots of the data flow tasks, and control flow tasks used for building the DWH:

Control Flow for the Whole Package:

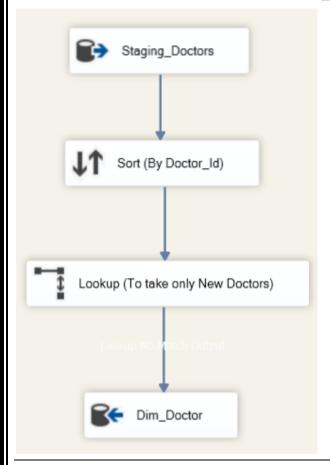




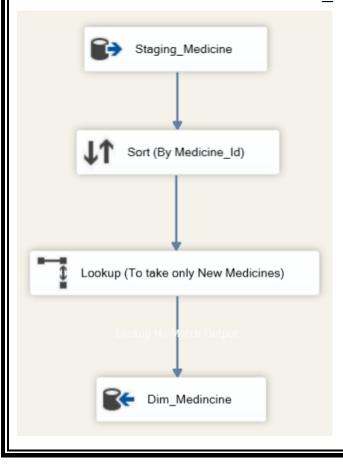
Data Flow Task for Load Dim_Patients:



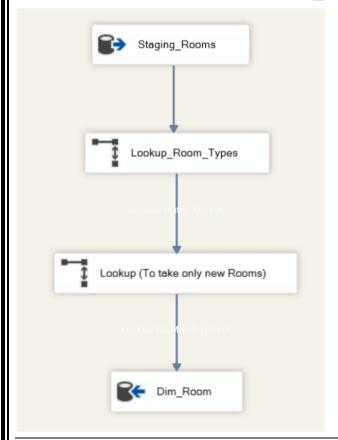
Data Flow Task for Load Dim_Doctor:



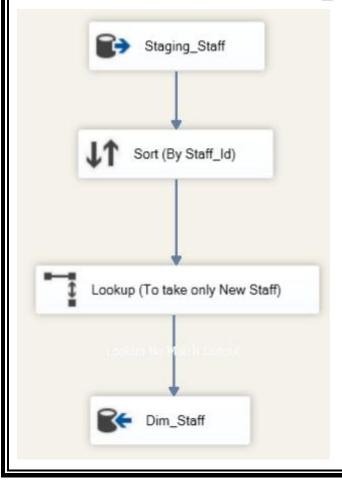
Data Flow Task for Load Dim_Medicine:



Data Flow Task of Load Dim_Room:

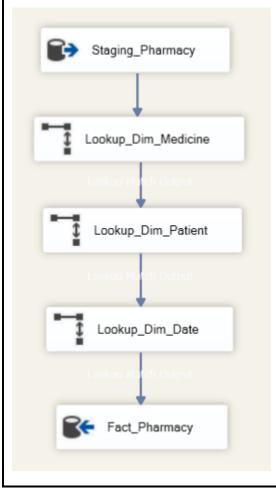


Data Flow Task for Load Dim_Staff:

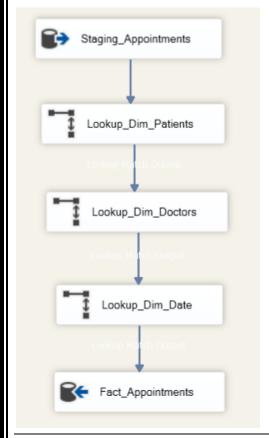


Data Flow Task for Load Dim_Date: Staying_Palents Staying_Date to S

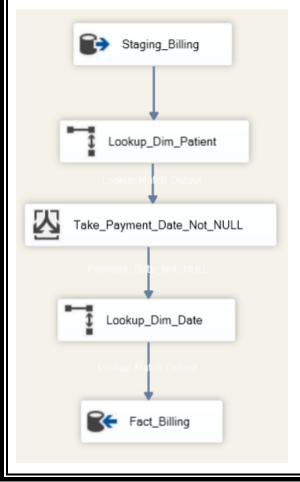
Data Flow Task for Load Fact_Pharmacy:



Data Flow Task for Load Fact_Appointments:



Data Flow Task for Load Fact_Billing:



Data Flow Task for Load Fact_Cleaning_Service: Staging_Cleaning_Service Lookup_Dim_Room Lookup_Dim_Staff Lookup_Dim_Date Adding Service_Count Derived Column Fact_Cleaning_Service

5. Queries on each fact table to let me understand what this fact table represents and what insights we can get from it, and a screenshot of the result set for each query:

Fact_Pharmacy:

```
-- 1. Quantity Dispensed by Medicine Type
   - SELECT
         dm.Medicine Type,
         SUM(fp.Quantity) AS Total_Quantity_Dispensed
     FROM
         Fact_Pharmacy fp
         INNER JOIN Dim_Medicine dm ON fp.Medicine_Surrogate_Id = dm.Medicine_Surrogate_Id
     GROUP BY
         dm.Medicine_Type
     ORDER BY
         Total_Quantity_Dispensed DESC;

    ■ Results    ■ Messages
    Medicine_Type
               Total_Quantity_Dispensed
               7985
1
    Tablet
                6285
2
    Capsule
3
                630
    Ointment
4
    Injection
                435
5
                145
    Liquid
     -- 2. Top Prescribed Medicines per Year
   ⇒SELECT
         dd. Year.
         dm.Medicine Name,
         SUM(fp.Quantity) AS Total_Quantity
     FROM
         Fact Pharmacy fp
         INNER JOIN Dim_Medicine dm ON fp.Medicine_Surrogate_Id = dm.Medicine_Surrogate_Id
         INNER JOIN Dim_Date dd ON fp.Prescription_Date_Key = dd.Date_Key
     GROUP BY
         dd.Year
         dm.Medicine_Name
     ORDER BY
         dd.Year ASC,
         Total_Quantity DESC;
145 %
Results Messages
             Medicine_Name
      Year
                                  Total_Quantity
      2022 Donepezil
                                  270
2
      2022 Venlafaxine
                                  150
      2022
             Metoprolol
                                  120
4
      2022 Esomeprazole
                                  120
      2022 Levofloxacin
                                  120
      2022 Amlodipine
                                  110
      2022
             Methylprednisolone
                                  105
      2022
             Atorvastatin
                                  100
      2022
             Metformin
                                  100
      2022
                                  100
 10
             Furosemide
      2022
             Ranitidine
                                  95
 11
       2022 Methotrexate
                                  90
```

```
-- 3. Number of Patients per Medicine
    ⊟ SELECT
          dm.Medicine_Name,
          COUNT(DISTINCT fp.Patient_Surrogate_Id) AS Patient_Count
     FROM
          Fact_Pharmacy fp
          INNER JOIN Dim_Medicine dm ON fp.Medicine_Surrogate_Id = dm.Medicine_Surrogate_Id
     GROUP BY
          dm.Medicine_Name
     ORDER BY
          Patient_Count DESC;
Results Messages
    Levothyroxine
2
    Venlafaxine
                 22
3
    Tamsulosin
                 18
 4
                 14
    Paracetamol
 5
    Doxorubicin
                 14
6
    Amoxicillin
                12
7
                12
    Lidocaine
8
                 6
    Donepezil
9
                6
    Atorvastatin
 10
    Citalopram
                 6
 11
    Doxycycline
                 5
12
    Isoniazid
                                                                                 MATRIX (16.0 RTM) | MATRIX\Abdelrahman Mat... | Hosp

    Query executed successfully

Fact_Appointments:
      -- 1. Number of Appointments per each Patient in each year
    ⊟ SELECT
          dd.Year,
          dp.Patient_Surrogate_Id,
          CONCAT(dp.first_name, ' ', dp.last_name) AS Patient_Full_Name,
          COUNT(*) AS Appointments_Count
      FROM
          Fact_Appointments fa
          INNER JOIN Dim Patient dp ON fa.Patient Surrogate Id = dp.Patient Surrogate Id
          INNER JOIN Dim_Date dd ON fa.Appointment_Date_Key = dd.Date_Key
      GROUP BY
          dd.Year,
          dp.Patient_Surrogate_Id,
          CONCAT(dp.first_name, ' ', dp.last_name);
175 %
Results Messages
            Patient_Surrogate_Id
                                Patient Full Name
                                                 Appointments_Count
      Year
      2022 1
                                John Doe
 2
      2022 2
                                                  1
                                Jane Smith
 3
      2022 3
                                Michael Johnson
                                                 1
      2022 4
                                                  1
                                Emily Davis
 5
      2022 5
                                Daniel Brown
                                                 1
      2022 6
                                Olivia Martinez
 6
                                                  1
 7
      2022 7
                                James Wilson
                                                  1
 8
      2022 8
                                Sophia Moore
                                                  1
      2022 9
                                David Taylor
                                                  1
 10
      2022 10
                                Isabella Anderson
                                                 1
 11
      2022
                                Fatima Hussein
                                                  1
                                                 1
```

Juan Rodriguez

12

2022 12

Query executed successfully

```
-- 2. Average Number of Appointments per Doctor in each year
    ddate.Year,
          fa.Doctor_Surrogate_Id,
          CONCAT(dd.first_name, ' ', dd.last_name) AS Doctor_Full_Name,
          COUNT(*) AS Appointments_Count
      FROM
          Fact_Appointments fa
          INNER JOIN Dim_Doctor dd ON fa.Doctor_Surrogate_Id = dd.Doctor_Surrogate_Id
          INNER JOIN Dim_Date ddate ON fa.Appointment_Date_Key = ddate.Date_Key
      GROUP BY
          ddate.Year,
          fa.Doctor_Surrogate_Id,
          CONCAT(dd.first name, ' ', dd.last name);
Results Messages
      Year
            Doctor_Surrogate_Id | Doctor_Full_Name
                                                 Appointments_Count
 72
      2024
           56
                               Dr. Caleb Owens
                                                  13
 73
      2024
                               Dr. Mira Sharma
                                                  1
      2024 58
                               Dr. Omar Iqbal
                                                  1
 74
 75
      2025
           1
                               Dr. Alice Miller
                                                  10
 76
      2025 2
                               Dr. Bob Williams
                                                  8
      2025 5
 77
                               Dr. Eva Garcia
                                                  6
 78
      2025
            11
                               Dr. Amina Siddiqui
                                                  8
                                                  2
 79
      2025 12
                               Dr. Javier Morales
                                                  6
80
      2025 14
                               Dr. Hiroshi Tanaka
81
      2025 27
                               Dr. Anika Reddy
                                                  13
                               Dr. Clara Oliveira
82
      2025 29
                                                  1
83
      2025
            30
                               Dr. Ibrahim Suleiman

    Query executed successfully

     -- 3. Top Doctors by Appointment Volume
     SELECT
          CONCAT(d.First_Name, ' ', d.Last_Name) AS Doctor_Name,
          COUNT(fa.Appointment_Id) AS Total_Appointments
     FROM
          Fact Appointments fa
          INNER JOIN Dim_Doctor d ON fa.Doctor_Surrogate_Id = d.Doctor_Surrogate_Id
     GROUP BY
          d.Doctor_Surrogate_Id,
          d.First_Name,
          d.Last_Name
     ORDER BY
          Total Appointments DESC;
175 %
Doctor_Name
                       Total_Appointments
      Dr. Caleb Owens
                       29
1
2
                       24
      Dr. Anika Reddy
3
      Dr. Alice Miller
                       22
4
      Dr. Sana Ahmed
                       18
5
      Dr. Bob Williams
                       17
6
      Dr. Eva Garcia
                       15
7
      Dr. Amina Siddiqui
                       15
8
      Dr. Hiroshi Tanaka
                       14
9
      Dr. Nia Mensah
                       12
10
      Dr. Maya Torres
                       7
                       5
11
      Dr. Mateo Cruz
      Dr. Esme Garcia
                       5
12
 12
      Dr Lina Kim
                       2

    Query executed successfully.
```

```
Fact_Billing:
     -- 1. Average Bill Amount per Patient in each year.
   dd.Year,
         dp.Patient_Surrogate_Id,
CONCAT(dp.First_Name, ' ', dp.Last_Name) AS Patient_Full_Name,
         AVG(fb.Total_Amount) AS Avg_Revenue_Per_Patient
     FROM
         Fact_Billing fb
         INNER JOIN Dim_Patient dp ON fb.Patient_Surrogate_Id = dp.Patient_Surrogate_Id
         INNER JOIN Dim_Date dd ON fb.Payment_Date_Key = dd.Date_Key
     GROUP BY
         dd.Year,
         dp.Patient_Surrogate_Id,
         CONCAT(dp.First_Name, ' ', dp.Last_Name)
     ORDER BY
         dd.Year ASC,
         Avg_Revenue_Per_Patient DESC
145 %
Results Messages
             Patient_Surrogate_Id
                                 Patient_Full_Name | Avg_Revenue_Per_Patient
      Year
                                                    2500.000000
 1
      2022
             36
                                 Mateo Cruz
 2
       2022
             5
                                 Daniel Brown
                                                    400.000000
 3
       2022 8
                                                    350.000000
                                  Sophia Moore
 4
       2022
             6
                                 Olivia Martinez
                                                    300.000000
 5
       2022
             3
                                 Michael Johnson
                                                    300.000000
 6
       2022 10
                                 Isabella Anderson
                                                    300.000000
       2022 9
 7
                                 David Taylor
                                                    280.000000
       2022
             7
 8
                                 James Wilson
                                                    250.000000
 9
       2022 2
                                 Jane Smith
                                                    250.000000
 10
       2022 12
                                 Juan Rodriguez
                                                    250.000000
       2022
             33
                                                    250.000000
 11
                                 Maya Torres
 40
       2022
                                 Emily Davia
                                                    220 000000

    Query executed successfully.

       -- 2. Total Revenue per Year
     SELECT
            dd. Year,
            SUM(fb.Total_Amount) AS Total_Revenue
       FROM
            Fact_Billing fb
            INNER JOIN Dim_Date dd ON fb.Payment_Date_Key = dd.Date_Key
       GROUP BY
            dd.Year
       ORDER BY
            dd.Year;
212 %
Results 🗐 Messages
           Total_Revenue
      Year
 1
      2022 7430.00
 2
      2023 6340.00
 3
      2024 23680.00
      2025 16130.00
```

```
-- 3. Monthly Revenue Trend
     ⊨ SELECT
            dd.Year,
            dd.Month,
            SUM(fb.Total_Amount) AS Monthly_Revenue
       FROM
            Fact Billing fb
            INNER JOIN Dim_Date dd ON fb.Payment_Date_Key = dd.Date_Key
       GROUP BY
            dd.Year, dd.Month
       ORDER BY
            dd.Year, dd.Month;
193 %
Results Messages
                     Monthly_Revenue
      Year
             Month
      2022
             1
                     200.00
 1
 2
      2022
             2
                     400.00
 3
      2022
             3
                     500.00
 4
      2022 4
                     470.00
 5
      2022 5
                     580.00
 6
      2022 6
                     300.00
 7
      2022 7
                     350.00
 8
      2022 8
                     2850.00
      2022
 9
             9
                     480.00
      2022 10
 10
                     520.00
 11
      2022
             11
                     350.00
 12
      2022
             12
                     430.00

    Query executed successfully.

      -- 4. Top Patients by Total Billing
    ≐ SELECT
          dp.Patient_Surrogate_Id,
          CONCAT(dp.First_Name, ' ', dp.Last_Name) AS Patient_Full_Name,
          SUM(fb.Total_Amount) AS Total_Spent
      FROM
          Fact_Billing fb
          INNER JOIN Dim_Patient dp ON fb.Patient_Surrogate_Id = dp.Patient_Surrogate_Id
      GROUP BY
          dp.Patient_Surrogate_Id,
          CONCAT(dp.First_Name, ' ', dp.Last_Name)
      ORDER BY
          Total_Spent DESC;
 Results Messages
      Patient_Surrogate_Id
                        Patient_Full_Name
                                        Total_Spent
                        Olivia Martinez
                                        4180.00
 1
      6
 2
      36
                                        3060.00
                        Mateo Cruz
 3
      18
                                        3020.00
                        Elijah Okonkwo
 4
      3
                        Michael Johnson
                                        1350.00
 5
      5
                        Daniel Brown
                                        1300.00
 6
      15
                        Li Wang
                                        1250.00
 7
      2
                        Jane Smith
                                        1250.00
 8
      9
                        David Taylor
                                        1090.00
      12
                        Juan Rodriguez
 9
                                        1090.00
                        James Wilson
 10
      7
                                        1050.00
 11
      8
                        Sophia Moore
                                        1050.00
      29
                        Zara Khan
                                        1020.00
 12
                        John Doo
                                        050.00

    Query executed successfully.
```

```
Fact_Cleaning_Service:
   \mid -- f 1. Total No. of cleaning services done by each staff member in each year
   dd.Year
         fcs.Staff_Surrogate_Id,
         CONCAT(ds.First_Name, ' ', ds.Last_Name) AS Staff_Name,
         SUM(fcs.Service_Count) AS Total_Cleaning_Services
     FROM
         Fact_Cleaning_Service fcs
         INNER JOIN Dim_Date dd ON fcs.Service_Date_Key = dd.Date_Key
         INNER JOIN Dim_Staff ds ON fcs.Staff_Surrogate_Id = ds.Staff_Surrogate_Id
         INNER JOIN Dim_Room dr ON fcs.Room_Surrogate_Id = dr.Room_Surrogate_Id
     GROUP BY
         dd.Year
         fcs.Staff_Surrogate_Id,
         CONCAT(ds.First_Name, ' ', ds.Last_Name)
     ORDER BY
         dd.Year
         fcs.Staff_Surrogate_Id;
131.%
Results Messages
                                                   Total_Cleaning_Services
              Staff_Surrogate_Id
                                  Staff_Name
       Year
 1
       2022
              1
                                   Alice Johnson
 2
       2022
              2
                                   Bob Smith
                                                   3
 3
       2022
              3
                                   Charlie Brown
                                                   4
 4
       2022
              6
                                   Frank Wilson
 5
       2022
              13
                                   Michael Taylor
                                                   2
 6
       2022
              18
                                   Lina Park
                                                   2
 7
                                                   2
       2022
              19
                                   Arjun Singh
 8
       2022
              20
                                  Zoe Martinez
                                                   2
 9
       2023
              8
                                   Helen Taylor
                                                   1
 10
       2023
              13
                                   Michael Taylor
                                                   2
       2023
              17
                                                   2
                                   Mateo Garcia
 11
       2024
                                   Alice Johnson
 12

    Query executed successfully

    -- 2. Yearly Cleaning Services per Room

□ SELECT

         dd.Year,
         dr.Room_Number,
         SUM(fcs.Service_Count) AS Total_Services
     FROM
         Fact_Cleaning_Service fcs
         INNER JOIN Dim_Room dr ON fcs.Room_Surrogate_Id = dr.Room_Surrogate_Id
         INNER JOIN Dim_Date dd ON fcs.Service_Date_Key = dd.Date_Key
     GROUP BY
         dd.Year,
         dr.Room_Surrogate_Id,
         dr.Room Number
     ORDER BY
         dd.Year ASC, Total_Services DESC;
159 %
Results Messages
      Year Room_Number
                           Total_Services
     2022 COS302
                           7
 1
 2
      2022 EMR802
                           5
 3
      2022
            PED902
                           5
                           4
 4
      2022 REH1002
 5
      2023 COS302
                           4
 6
      2023 REH1002
                           1
 7
      2024
            COS302
                           31
 8
      2024
            REH1002
                           11
      2024
            PFD902
                           6
 9
                           6
 10
      2024 EMR802
                           2
 11
      2024
            OPR401
      2024
            LAB208
                           1
 12

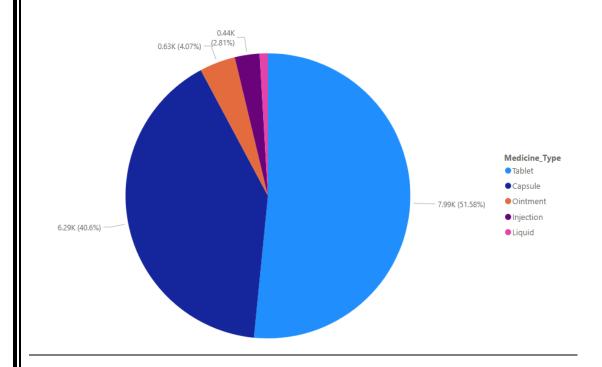
    Query executed successfully.
```

	Room_Type	Total_Services
1	Cosmetic	58
2	Rehabilitation	17
3	Pediatric Ward	12
4	Emergency	12
5	Operating	3
6	General Ward	2
7	Laboratory	2
8	Radiology	2
9	Staff	2

6. Screenshots of the deployed packages in SSIS with their schedule: Object Explorer Connect ▼ * ♥ ■ ▼ 🖒 - ᢢ ☐ I Databases System Databases Database Snapshots → Hospital_DWH → Hospital_OLTP ■ SSISDB Security 🔢 📕 Always On High Availability ☐ Integration Services Catalogs ☐ SSISDB ☐ Projects ☐ 🚮 HospitalDWH_ETL ■ Packages HospitalDWH_Package.dtsx ■ 易 SQL Server Agent 🖃 📕 Jobs SSIS Server Maintenance Job ■ syspolicy_purge_history Job Activity Monitor ⊕ Operators Proxies 🔢 📕 Error Logs SQLQuery1.sql - MATRIX.master (MATRIX\Abdelrahman Matrix (55)) - Microsoft SQL Server Management Studio <u>F</u>ile <u>E</u>dit <u>V</u>iew <u>P</u>roject <u>T</u>ools <u>W</u>indow <u>H</u>elp G → O | 👸 → 🖆 → 當 💾 🛂 | 🗿 New Query 🚇 🔬 ເລີ ເລີ | 🔊 → 🤻 → | 🐼 | → | 🥬 pharmacy - 🗔 🔑 🛳 🖂 - 🍃 - | ▶ Execute ■ ✓ 왕 🗊 🖫 | 왕 🗊 | 원 표 요 | 열 열 표 표 수 🛬 | 🍖 🛫 Object Explorer Connect ▼ * ♥ ■ ▼ ♂ - ♣ ■ Databases System Databases ⊕ SSISDB ■ Security Always On High Availability ☐ Integration Services Catalogs ☐ SSISDB Start Jobs - MATRIX × ☐ I Hospital_DWH ☐ Projects Success ☐ ☐ HospitalDWH_ETL Packages Details: HospitalDWH_Package.dtsx Status Messa Start Job 'Hospital_DWH_Load_Sched... □ 易 SQL Server Agent Execute job 'Hospital_DWH_Load_Sch... ■ Hospital_DWH_Load_Schedule SSIS Server Maintenance Job syspolicy_purge_history Close Job Activity Monitor Alerts Error Logs XEvent Profiler X

7. [Bonus] Build an interactive dashboard for the DWH using any data visualization tool (Ex: Microsoft Power BI).

Sum of Total_Quantity_Dispensed by Medicine_Type



Dim_Medicine.Medicine_Name	2022	2023	2024	2025	Total
Acetaminophen				45.00	45.00
Amlodipine	110.00				110.00
Amoxicillin		20.00	220.00	160.00	400.00
Aspirin		30.00	60.00		90.00
Atorvastatin	100.00	50.00	165.00	100.00	415.00
Azithromycin		160.00			160.00
Cephalexin	35.00				35.00
Cetirizine			90.00		90.00
Ciprofloxacin			25.00		25.00
Citalopram	20.00	25.00	40.00	20.00	105.00
Clarithromycin				70.00	70.00
Clopidogrel	20.00	60.00			80.00
Cough Syrup	5.00	5.00	10.00		20.00
Dexamethasone				50.00	50.00
Donepezil	270.00		360.00		630.00
Doxorubicin		10.00	170.00	80.00	260.00
Doxycycline	50.00	50.00	150.00	150.00	400.00
Duloxetine	80.00				80.00
Epinephrine			50.00		50.00
Escitalopram				50.00	50.00
Esomeprazole	120.00				120.00
Ferrous Sulfate			65.00		65.00
Fluoxetine		45.00			45.00
Furosemide	100.00				100.00
Gabapentin		120.00	50.00		170.00
Hydrochlorothiazide		50.00	30.00		80.00
Hydrocortisone			90.00		90.00
Ibuprofen			15.00		15.00
Insulin Glargine		60.00	15.00		75.00
Isoniazid	50.00	50.00	120.00	50.00	270.00
Lamotrigine			15.00		15.00
Levofloxacin	120.00				120.00
Total	2,175.00	1,415.00	6,845.00	5,045.00	15,480.00

